**3GPP TSG-SA WG6 Meeting #45-bis-e S6-212293 Rev2**

**e-meeting, 11th – 19th October 2021 (revision of S6-21xxxx)**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** | - | **Current version:** |  |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

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|  |
| ***Title:***  | Correction on clause 8.7.5 |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** | S6 |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** |  |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | When the MSGin5G message is delivered between different PLMNs, the recipient of the message may not only MSGin5G UE. This CR will solve this problem. The reference clauses of the procedures are also needed to be added. |
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| ***Summary of change:*** | Correction on clause 8.7.5 |
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| ***Consequences if not approved:*** | Some description of procedure in clause 8.7.5 is wrong. |
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| ***Clauses affected:*** | 8.7.5 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Change 1\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 8.7.5 Message delivery between different PLMNs

#### 8.7.5.1 General

MSGin5G message may be delivered between different PLMNs.

The procedure may apply to Point-to-Point message, Group message, Application-to-Point message and Point-to-Application message delivery based on the business agreement between the PLMNs.

#### 8.7.5.2 Inter-PLMN message exchange procedure

Pre-condition:

1. The Message Sender (e.g. MSGin5G Client 1 in MSGin5G UE 1) is registered to the MSGin5G Server 1 in one PLMN.

2. The Message Receiver (e.g. MSGin5G Client 2 in MSGin5G UE 2) is registered to the MSGin5G Server 2 in another PLMN.

3. MSGin5G Server 1 and MSGin5G Server 2 have established a secured connection.

Figure 8.7.5-1 shows message delivery between MSGin5G endpoints in different PLMNs, where Message Sender is registered in MSGin5G Server 1 and Message Receiver is registered in MSGin5G Server 2.



Figure 8.7.5-1: Message delivery between different PLMNs

1. The Message Sender sends an MSGin5G message request to MSGin5G Server 1 in PLMN 1 as specified in clause 8.3.2.

2. The MSGin5G Server 1 analyses the target UE Service ID and determines that the message is targeted to the Message Receiver in PLMN 2, authenticates that the Message Sender is allowed to send a message to the Message Receiver, and then the MSGin5G Server 1 forwards the MSGin5G message request to MSGin5G Server 2 in PLMN 2.

3. MSGin5G Server 2 forwards the MSGin5G message request to the Message Receiver as specified in clause 8.3.3.

4-6. If the message delivery status report is requested, the Message Receiver sends a message delivery status report to Message Sender as per procedure specified in clause 8.3.4 and 8.3.5.

Editor’s Note: how the Message delivery based on Messaging Topic works for UEs/Application Servers reside in different MSGin5G Servers and different PLMNs is FFS.